

DRILL HOLES

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BORDER REV: DATE: March 27, 2007

BY: Ardalan Faghi Division: P068 Highway TrafficGMA Emp

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF EMERGENCY VEHICLE OPTICOM PRE-EMPTION EQUIPMENT FOR THE EASTBOUND AND WESTBOUND APPROACHES OF MD 231 (PRINCE FREDERICK ROAD) AT MD 381 (BRANDYWINE ROAD) IN CHARLES COUNTY. MD 231 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

II. INTERSECTION OPERATION

- THE INTERSECTION OPERATES IN A NEMA FOUR-PHASE, FULLY ACTUATED MODE, WITH THE MD 231 (PRINCE FREDRICK ROAD) APPROACHES RUNNING CONCURRENTLY. AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE IS PROVIDED FOR EASTBOUND MD 231 (PRINCE FREDERICK ROAD). THERE ARE PEDESTAL MOUNTED HIB'S INSTALLED FOR EASTBOUND AND WESTBOUND DIRECTIONS OF MD 231 (PRINCE FREDERICK ROAD). MD 381 (BRANDYWINE ROAD) APPROACH OPERATES AS A SEPARATE PHASE.
- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: MD 104.02-01, MD 104.03-09, MD 104.03-11 AND MD 104.03-13.

CONTACTS

DISTRICT 5

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-841-1019

MR. MIKE HUBER
DISTRICT UTILITIES ENGINEER - UTILITIES
410-841-1039

MR. JAMES FOLDEN
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-841-1031

MR. JOHN S. MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-841-1013

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
MANAGER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
MANAGER SIGN OPERATIONS
410-787-7670

MR. MIKE STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

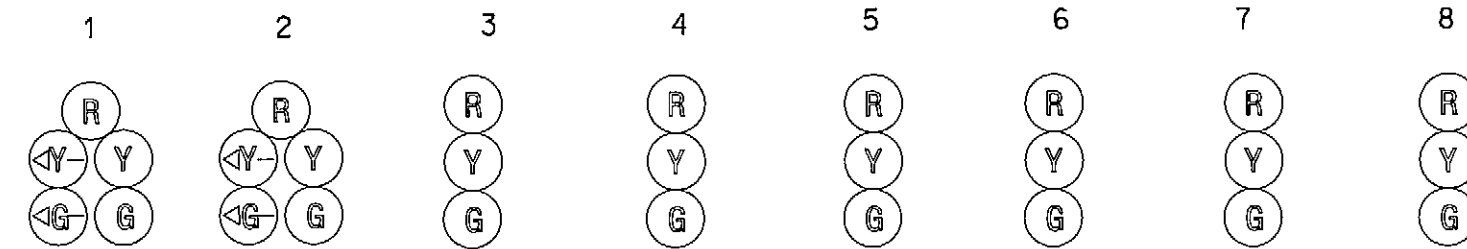
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

NONE

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8032	1460 LF	4-CONDUCTOR OPTICOM CABLE
8047	1 EA	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8049	3 EA	OPTICOM NO. 721 DETECTOR EYE

PHASE CHART



PHASE 1 AND 6	<G/G	<G/G	G	R	R	R	R	R	
1 AND 6 CHANGE	<Y/G	<Y/G	G	R	R	R	R	R	
PHASE 2 AND 6	G	G	G	G	G	G	R	R	
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	
PHASE 4	R	R	R	R	R	R	G	G	
PHASE 4 CHANGE	R	R	R	R	R	R	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	

FIRE HOUSE PRE-EMPTION

FIRE HOUSE PRE-EMPTION PHASE 2	R	R	R	G	G	G	R	R	
PRE-EMPTION CLEARANCE	R	R	R	G	G	G	R	R	
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	G	G	R	R	

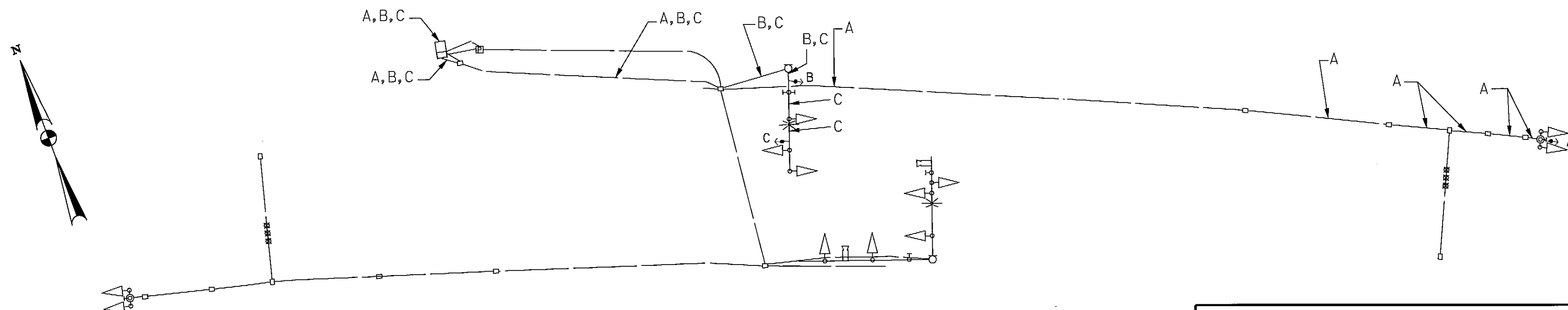
FIRE HOUSE PRE-EMPTION PHASE 6	<G/G	<G/G	G	R	R	R	R	R	
PRE-EMPTION CLEARANCE	<Y/G	<Y/G	G	R	R	R	R	R	
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	G	G	R	R	

TOD NO: XX647-03
SHA NO: CH211B51
MD 231 @ MD 381

KEY

A,B,C - 4 CONDUCTOR OPTICOM CABLE

WIRING DIAGRAM (NOT TO SCALE)



SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 231 (PRINCE FREDERICK ROAD) AND MD 381 (BRANDYWINE ROAD)
PATUXENT, MARYLAND

GENERAL INFORMATION SHEET

SCALE N/A DATE 04/20/11 CONTRACT NO. XX6475185

DESIGNED BY AMH OF KCI COUNTY CHARLES
DRAWN BY AF OF KCI LOGMILE 08023105.54
CHECKED BY JFL OF KCI TMS NO. K520
F.A.P. NO. SEE TITLE SHEET TOD NO.

TS NO. 4711 A DRAWING **SG-2** OF 2 SHEET NO. 2 OF 2

PLOTTED: "01:31 PM on Tuesday, April 12, 2011"
FILE: M:\2009\01090619-19\drawings\p8g-N000_MD231.dgn